

### **Amendments to the Specification**

Please replace the following paragraph at lines 10-17 on page 3 of the Specification with the following amended paragraph:

The general OFDM system performs AGC while assuming the DC offset to be an ignorable small value, after which the system calculates the DC offset to cancel the same. However, a drawback of this process is that it causes a reduction in accuracy in the initial sync acquisition stage. The DC offset problem is made worse if using the direct conversion method (i.e., converting RF, or radio frequency, signals directly into baseband frequency signals without using an IF, or intermediate-frequency, band frequency band), which is currently being developed for use in low price receiving systems.

Please replace the following paragraph at lines 19-24 on page 7 of the Specification with the following amended paragraph:

Occurring concurrently with the above, the accumulators 140 and 142 respectively accumulate the I and Q signals output by the A/D converters 110 and 112 for a predetermined time interval. The accumulators 140 and 142 then find mean values of the accumulated I and Q signals, respectively, and output the ~~means~~ mean values. That is, the accumulators 140 and 142 find mean values respectively of the I and Q signals of a predetermined period of time, then output the mean values. The mean values are defined as DC offsets of I and Q signals. The accumulation interval is set as the amount of time required to take 16 samples in the case of using a short training sequence, and as the amount of time required to take 64 samples in the case of using a long training sequence.